W56:

5' - AAACAGGGACCCATATGGAAGACGC - 3' (SEQ ID NO: 34)

W57:

5' - AATTAACTCGAGGAATTTCGTCATCGCTGAATACAG - 3' (SEQ ID NO: 35)

Please delete the paragraph on page 19, lines 1-11, and replace it with the following paragraph:

### Example 3

# Preparation of further triple mutant enzyme

The following primers were used to create the triple mutant T214A/I232A/E354K using a standard PCR reaction and with the pET23 plasmid with the T214A mutation as template:

CTGATTACACCCAAGGGGGATG (SEQ ID NO: 26) E354K-sense

CATCCCCCTTGGGTGTAATCAG (SEQ ID NO: 27) E354K-antisense

GCAATCAAATCGCTCCGGATACTGC (SEQ ID NO: 30) 1232A-sense

GCAGTATCCGGAGCGATTTGATTGC (SEO ID NO: 31) I232A-antisense.

Please delete the paragraph on page 19, lines 13-31, and replace it with the following paragraph:

### Example 4

# Identification of thermostable 295 mutant

The F295 mutant was created using the error-prone PCR method described by Fromant et al., Analytical Biochemistry, vol 224, 347-353 (1995). The PCR conditions used were as follows:

- $0.5 \mu l$  (50 ng) plasmid pET23
- 5.0  $\mu$ l 10x KCI reaction buffer
- 1  $\mu$ l primer 1 60 pmoles of each primer
- 1  $\mu$ l primer 2
- 1 µl Biotaq™ polymerase (5U)
- 2  $\mu$ l dNTPs, in mixture 35 mM dTTP, 12.5 mM dGTP, 22.5 mM dCTP,
- 14 mM dATP

```
1.76 \mul MgCl<sub>2</sub> (50 mM stock)

1 \mul MnCl<sub>2</sub> (25 mM stock) [final concentration in reaction = 3.26 nM]

36.7 \mul dH<sub>2</sub>O

Primer 1 = 5' - AAACAGGGACCCATATGGAAGACGC - 3' (SEQ ID NO: 34)

Primer 2 = 5' - AATTAACTCGAGGAATTTCGTCATCGCTGAATACAG -3' (SEQ ID NO: 35)
```

Please delete the paragraph on page 21, lines 1-10, and replace it with the following paragraph:

#### Example 5

Other mutants of the invention were produced by PCR using appropriate combinations of the oligonucleotides listed above as well as the following:

```
GAAAGGCCCGGCACCAGCCTATCCTCTAGAGG (SEQ ID NO: 5) F14A-sense
CCTCTAGCGGATAGGCTGGTGCCGGGCCTTTC (SEQ ID NO: 6) F14A-antisense
```

```
GAGATACGCCGCGGTTCCTGG (SEQ ID NO: 9) L35A-sense CCAGGAACCGCGGCGTATCTC (SEQ ID NO: 10) L35A-antisense
```

Insert the attached Sequence Listing in place of the Sequence Listing submitted April 29, 2002.